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PTO/SB/08A (10-96)

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Substitute for form 1449A/PTO (Modified by BSTZ 6/30/99) INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		O I P E FEB 09 2001 PATENT & TRADEMARK OFFICE		Complete if Known			
		Application Number		09/738,086			
		Filing Date		12/15/2000			
		First Named Inventor		Xiaodong Li			
		Group Art Unit		Not yet assigned			
		Examiner Name		Not yet assigned			
Sheet	1	of	3	Attorney Docket Number		005158.P002	

U.S. PATENT DOCUMENTS				
Examiner Initials *	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Number			
T.G.	6,067,290		Paulraj et al.	5/23/2000
	6,064,694		Clark et al.	5/16/2000
	6,052,594		Chuang et al.	4/18/2000
	6,005,876		Cimini, Jr. et al.	12/21/1999
	5,973,642		Li et al.	10/26/1999
	5,956,642		Larsson et al.	9/21/1999
	6,041,237		Farsakh	3/21/2000
	6,064,692		Chow	5/16/2000

FOREIGN PATENT DOCUMENTS					
Examiner Initials *	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Office or Country	Number	Date		

OTHER DOCUMENTS		
Examiner Initials *	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published (if known).	Translation? Yes/No
T.G.	BENDER et al., CDMA/HDR: A Bandwidth-Efficient High-Speed Wireless Data Service for	
	Nomadic Users, IEEE Communications Magazine, July 2000, pp. 70-87.	
	FRULLONE et al., PRMA Performance in Cellular Environments with Self-Adaptive Channel	
	Allocation Strategies, IEEE Transactions on Vehicular Technology, November 1996, pp.657-665	
	Vol. 45, No. 4.	

Examiner Signature	<i>Hean Heland Gelin</i>	Date Considered	3/17/04
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		Number			

FOREIGN PATENT DOCUMENTS							
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OTHER DOCUMENTS			
Examiner Initials *		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published (if known).	Translation? Yes/No
J.G.		XU, GUANGHAN and LI, SAN-QI, Throughput Multiplication of Wireless Lans for Multimedia	
		Services: SDMA Protocol Design, 1994 IEEE, pp. 1326-1332.	
		WARD, JAMES and COMPTON, R. TED, JR., High Throughput Slotted ALOHA Packet Radio	
		Networks with Adaptive Arrays, IEEE Transactions on Communications, March 1993, pp. 460-470,	
		Vol. 41, No. 3.	

Examiner Signature	<i>Jean Kelland Gelin</i>	Date Considered	3/17/04
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number	09/738,086
Filing Date	12/15/2000
First Named Inventor	Xiaodong Li
Group Art Unit	Not yet assigned
Examiner Name	Not yet assigned
Attorney Docket Number	005158.P002

Sheet 3 of 3

U.S. PATENT DOCUMENTS

Examiner Initials *	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Filing Date if Appropriate
	Number				

FOREIGN PATENT DOCUMENTS

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OTHER DOCUMENTS

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J.G	TSOULOS, G.V., Smart antennas for mobile communication systems: benefits and challenges,	
	Electronics & Communication Engineering Journal, April 1999, pp. 84-94.	
	SHAD et al., Indoor SDMA Capacity Using a Smart Antenna Basestation, 1997 IEEE, pp. 868-872.	
	FARSAKH, CHRISTOF and NOSSEK, JOSEF A., On the Mobile Radio Capacity Increase	
Y	Through SDMA, no date (after 1997).	

Examiner
Signature

Jean Allard Gelin

Date
Considered

3/17/04

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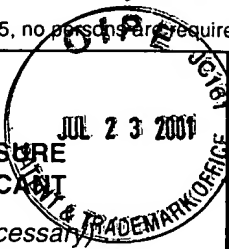
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Substitute for form 1449A/PTO
(Modified by BSTZ 6/30/99)

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)



Complete if Known

Application Number	09/738,086
Filing Date	12/15//2000
First Named Inventor	Xiaodong Li
Group Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	05158.P002

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

Examiner Initials *	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation? Yes/No
	Office or Country	Number	Date			

OTHER DOCUMENTS

Examiner Initials *	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published (if known).	Translation? Yes/No
J.G.	Bender, et al. "CDMA/HDR: A Bandwidth Efficient High-Speed Wireless Data Service for Nomadic Users,"	Yes
↓	IEEE Communications Magazine, July 2000, pgs. 70-87.	
↓	Frullone, et al., "PRMA Performance in Cellular Environments with Self-Adaptive Channel Allocation	Yes
↓	Strategies," IEEE Transactions on Vehicular Technology, Vol. 45, No. 4, November 1996, pgs. 657-665.	

Examiner Signature

Jean Allard Gelin

Date Considered

3/17/04

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Substitute for Form 1449A/PTO (Modified)

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number	09/738,086
Filing Date	December 15, 2000
First Named Inventor:	Xiaodong Li
Group Art Unit	2681
Examiner Name	Unassigned
Attorney Docket Number	005158.P002

Sheet	2	of	2
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OTHER ART – NO PATENT LITERATURE DOCUMENTS

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Examiner Signature	<i>Dean Howard Gelin</i>	Date Considered	<i>3/17/04</i>
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¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.

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Substitute for Form 1449A/PTO (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
<div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block;"> SEP 19 2002 PATENT & TRADEMARK OFFICE </div>				Application Number	09/738,086
				Filing Date	12/15/2000
				First Named Inventor:	Xiaodong Li
				Group Art Unit	2681
				Examiner Name	Unassigned
Sheet 1 of 2	Attorney Docket Number 005158.P002				

U.S. PATENT DOCUMENTS						
Exam. Initial*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Code ²	Kind (If known)			
J.G	H	6,377,632	B1	Paulraj et al.	04/23/2002	
	I	6,131,016		Greenstein et al.	10/10/2000	
	J	6,026,123		Williams	02/15/2000	
	K	5,914,933		Cimini et al.	06/22/1999	
	L	5,726,978		Frodigh et al.	03/10/1998	
	M	5,708,973		Ritter	01/13/1998	
	N	5,555,268		Fattouche et al.	09/10/1996	
	O	5,504,775		Chouly et al.	04/02/1996	
	P	5,479,447		Chow et al.	12/26/1995	
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FOREIGN PATENT DOCUMENTS								
Exam. Initial*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (If known)				
JG	Q	EP	0 869 647	A2	Lucent Technologies Inc.	10/07/1998		

Examiner Signature: <i>Jean Allard Gelin</i>	Date Considered: <i>3/18/04</i>
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¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.

Substitute for Form 1449A/PTO (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT <small>(Use as many sheets as necessary)</small>		Complete if Known	
		Application Number	09/738,086
		Filing Date	12/15/2000
		First Named Inventor:	Xiaodong Li
		Group Art Unit	2681
		Examiner Name	Unassigned
		Attorney Docket Number	005158.P002
Sheet	2	of	2
		OTHER ART - NO PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
J. G	Y	GRUENHEID, R. et al.: "Adaptive Modulation and Multiple Access for the OFDM Transmission Technique", Wireless Personal Communications, Kluwer Academic Publishers, NL, Vol. 13, NR. 1/2, Year 2000, pages 5-13 XP000894156, ISSN: 0929-6212.	
	Z	MOTEGI, M. et al.: "Optimum Band Allocation According to Subband Condition for BST-OFDM" 11 th IEEE International Symposium on Personal Indoor and Mobile Radio Communications, vol. 2, 18-21 September 2000, pages 1236-1240, XP002213669, Piscataway, NJ, USA, ISBN: 0-7803-6463-5.	
	AA	KAPOOR, S. et al.: "Adaptive Interference Suppression in Multiuser Wireless OFDM Systems Using Antenna Arrays" IEEE Transactions on Signal Processing, vol. 47, no. 12, December 1999, pages 3381-3391, XP000935422, IEEE, New York, USA, ISSN: 1053-587X.	
	BB	YE LI, et al.: "Clustered OFDM with channel estimation for high rate wireless data", Mobile Multimedia Communications, 1999. (MOMUC '99). 1999 IEEE International Workshop on San Diego, CA, USA, IEEE, US, 15 November 1999, pages 43-50, XP010370695, ISBN: 0-7803-5904-6.	
	CC	NOGUEROLES, R. et al.: "Improved Performance of a Random OFDMA Mobile Communication System" Vehicular Technology Conference, 1998. VTC 98. 48 th IEEE Ottawa, Ontario, Canada, 18-21 May 1998, (1998-05-18), pages 2502-2506, XP010288120, ISBN: 0-7803-4320-4.	
	DD	KINUGAWA, Y. et al.: "Frequency and Time Division Multiple Access with Demand-Assignment Using Multicarrier Modulation for Indoor Wireless Communications Systems", IEICE Transactions on Communications, Institute of Electronics Information and Comm. Eng. Tokyo, Japan, vol. E77-B, NR. 3, March 1994, pages 396-402, XP000451014, ISSN: 0916-8516.	

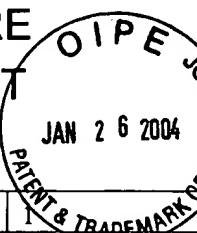
Examiner Signature		Date Considered	3/17/04
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¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.

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Substitute for Form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known Application Number: 09/738,086 Filing Date: December 15, 2000 First Named Inventor: Xiaodong Li Art Unit: 2681 Examiner Name: Not Yet Assigned Attorney Docket Number: 005158.P002	
Sheet	1	of	1		



U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)				
J.G.		US-	5,734,967	3/31/1998	Kotzin et al.	
		US-	5,886,988	3/23/1999	Yun et al.	
		US-	5,887,245	3/23/1999	Lindroth et al.	
		US-	5,933,421	8/3/1999	Alamouti, et al.	
		US-	6,061,568	5/9/2000	Dent	
		US-	6,108,374	8/22/2000	Balachandran et al.	
		US-	6,226,320 B1	5/1/2001	Hakkinen et al.	
		US-	6,366,195 B1	4/2/2002	Harel et al.	
		US-	6,477,158 B2	11/5/2002	Take	
		US-	2003/0067890 A1	4/10/2003	Goel et al.	
		US-	2003/0169824 A1	9/11/2003	Chayat	
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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
J.G.		JP	06029922		2/4/1994	Mitsuru et al.		

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS.
SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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